NOTICE OF INACTIVATION FOR NEW DESIGN

INCH-POUND

MIL-C-22284A(AS) NOTICE 1 18 September 1996

# MILITARY SPECIFICATION

# CONTAINER, AIRCRAFT FIRE EXTINGUISHING SYSTEM, BROMOTRIFLUOROMETHANE, $CF_3BR$

This notice should be filed in front of MIL-C-22284A(WP), dated 7 September 1965, and Amendment 1, dated 6 November 1995.

MIL-C-22284A(AS) is inactive for new design and is no longer used, except for replacement purposes.

Preparing activity: Navy - AS

AMSC N/A FSC 1680 DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

INCH-POUND

MIL-C-22284A(AS) AMENDMENT 1 6 November 1995

# MILITARY SPECIFICATION

# CONTAINER. AIRCRAFT FIRE EXTINGUISHING SYSTEM, BROMOTRIFLUOROMETHANE, CF3BR

This amendment forms a part of MIL-C-22284A(AS), dated 7 September 1965, and is approved for use by the Naval Air Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 1

1.1: At the end of the paragraph, add "(see 6.1.1)."

PAGE 5

3.4.4: At the end of the paragraph, add "(see 6.1.1)."

PAGE 13

4.6.2, line 4: Delete "such as a freon detector."

PAGE 15

Add the following new paragraph:

"6.1.1 ODS assessment. Paragraphs 1.1 and 3.4.4 require the use of bromotrifluoromethane,  $CF_3Br$ , an ozone depleting substance. Based on the appropriate Technical Representative's assessment, it has been determined that a suitable substitute is not currently available. The use of bromotrifluoromethane,  $CF_3Br$ , is permitted pending approval from the Senior Acquisition Official for each acquisition.

> Preparing activity: Navy - AS

> (Project 1680-0619)

AMSC N/A 1 of 1 DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

MIL-C-22284A(WP) 7 September 1965

Superseding

MIL-C-22284(Wep) 11 December 1959

#### MILITARY SPECIFICATION

CONTAINER, AIRCRAFT FIRE EXTINGUISHING SYSTEM, BROMOTRIFLUOROMETHANE, CF3BR

This specification has been approved by the Bureau of Naval Weapons, Department of the Navy.

#### 1. SCOPE

1.1 Scope - This specification covers containers for bromotrifluoromethane, CF<sub>3</sub>Br, for use in aircraft fire extinguishing systems of the high rate discharge type.

1.2 <u>Classification</u> - The containers shall be of the types listed in Table I, as specified (see 6.2):

TABLE I CF3Br Internal Volume Max. Weight Charged Discharge Container - Lbs. Outlet Cubic Inches Charge Type Lbs. (+0.25,-0)CF-2 2.5 10 Single 86 2.5 12 1/2 CF-2D Dual 86 CF-6 224 6.5 15 Single CF-6D Dual 224 6.5 17 1/2 22 1/2 378 11 CF-11 Single 378 11 24 CF-11D Dual 15 28 1/2 CF-15 536 Single 15 31 CF-15D 536 Dual 18 33 CF-18 Single 630 18 35 1/2 CF-18D Dua1 630 CF-27 945 27 47 Single 50 27 CF-27D Dua1 945 CF-30 Single 1050 30 53 30 56 CF-30D 1050 Dual

THIS DOCUMENT CONTAINS  $\frac{1}{2}$  PAGES.

FSC 1680



# 2. APPLICABLE DOCUMENTS

2.1 Government documents normally furnished - The following documents, of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

## SPECIFICATIONS

Military	
MIL-P-116	Preservation, Methods of
MIL-C-490	Cleaning and Preparation of Ferrous and Zinc Coated Surfaces for Organic Protective Coatings
MIL-T-5021	Tests, Aircraft Welding Operator's Certification
MIL-E-5272	Environmental Testing, Aeronautical and Associated Equipment, General Specification for
MIL-N-6011	Nitrogen; Liquid and Gas
MIL-L-7178	Lacquer; Cellulose Nitrate, Gloss, for Aircraft Use
MIL-E-7729	Enamel; Gloss, for Aircraft Application
MIL-S-7742	Screw Threads, Standard, Aeronautical
MIL-P-8585	Primer; Coating, Zinc Chromate, Low Moisture Sensitivity
MIL-D-8635	Decals, for Use on Interior Surfaces

## Military (continued)

MIL-B-12218

Bromotrifluoromethane (Liquefied)

MIL-D-21625

Design and Evaluation of Cartridges for Cartridge Actuated Devices

MIL-E-22285

Extinguishing System, Fire, Aircraft, High-Rate-Discharge Type, Installation and Test of

MIL-D-70327

Drawings, Engineering and Associated Lists

#### STANDARDS

# <u>Federal</u>

FED-STD-595 Colors

## Military

MIL-STD-105

Sampling Procedures and Tables for Inspection by Attributes

MIL-STD-143

Specifications and Standards, Order of Precedence for the selection of

MIL-STD-794

Parts and Equipment, Procedures for Packaging and Packing of

MS33586

Metals, Definition of Dissimilar

MS33656

Fitting End, Standard Dimensions for Flared Tube Connection and

# Air Force-Navy Aeronautical Design Standards

AND10050 Bosses, Standard Dimensions for Gasket Seal, Straight Thread

Gasket Seal

(When requesting applicable documents, refer to both title and number. Copies of unclassified documents may be obtained from the Commanding Officer, Naval Supply Depot (Code 1051), 5801 Tabor Avenue, Philadelphia, Pennsylvania 19120. Requests for copies of classified documents should be addressed to the Naval Supply Depot, via the cognizant Government inspector.)

2.2 Other publications - The following document forms a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids shall apply.

## Interstate Commerce Commission

Specification 4DA Inside Containers, Welded Steel for Aircraft Use

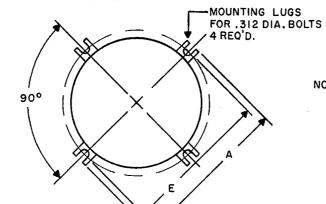
(Copies of Interstate Commerce Commission Specifications may be obtained from the Interstate Commerce Commission, Washington, D. C.)

#### 3. REQUIREMENTS

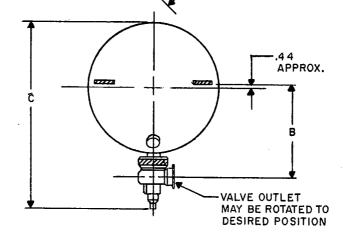
- 3.1 <u>Preproduction</u> The item furnished under this specification shall be a product which has been inspected and passed the preproduction inspection specified herein.
- 3.2 <u>Selection of specifications and standards</u> Specifications and standards for necessary commodities and services not specified herein shall be selected in accordance with MIL-STD-143.
- 3.3 <u>Materials</u> Materials shall conform to applicable specifications and shall be as specified herein and on applicable drawings. Materials which are not covered by specifications, or which are not specifically described herein, shall be of the best quality, of the lighest practicable weight, and suitable for the purpose intended.
- 3.3.1 <u>Metal parts</u> All metal parts shall be of a corrosion resistant material or treated in a manner to render them adequately resistant to corrosion.
- 3.3.1.1 <u>Dissimilar metals</u> Unless suitably protected against electrolytic corrosion, dissimilar metals shall not be used in intimate contact with each other. Dissimilar metals are defined in MS33586.
- 3.4 <u>Design and construction</u> The container shall consist of a sphere, discharge valve(s), a pressure gage, a safety outlet and a filler port. The safety outlet and filler port may be combined.

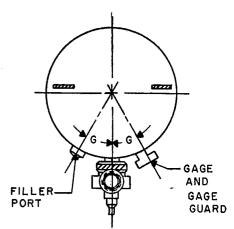
- 3.4.1 <u>Dimensions</u> The containers shall conform to the dimensions and configuration shown in Figure 1, 2, or 3, as applicable. Dimensions and tolerances not specified shall be as close as is consistent with the best shop practices.
- 3.4.2 <u>Adjustment and repair provisions</u> The container shall be constructed so that adjustments and repairs can readily be made by personnel of overhaul bases.
- 3.4.3 <u>Mounting</u> The container shall be designed to be mounted with the valve down. No syphon tubes shall be required for operation.
- 3.4.4 Charge The container shall be charged with bromotrifluoromethane, CF<sub>3</sub>Br, conforming to MIL-B-12218. The quantity of CF<sub>3</sub>Br shall be as indicated in Table I for the specified type. Each container shall be supercharged with nitrogen conforming to MIL-N-6011, Grade A, Type 1, to a pressure to 600 plus 25, minus 0, psi at 72°F. The container shall be dry before charging.
- 3.4.5 Spheres The sphere shall be fabricated of steel with internal volume to conform to Table I. Unless otherwise stated herein the spheres shall be designed, tested and manufactured to Interstate Commerce Commission (ICC) Specification No. 4DA, with service pressure designated as 700 psi.
- 3.4.6 <u>Discharge valves</u> Single outlet containers shall have a single discharge valve supplied with the container. Dual outlet containers shall have 2 discharge valves supplied with the container.
- 3.4.6.1 Actuation Valves shall contain an electrical actuation mechanism designed for operation on 17 to 31 volts DC. The electrical terminal stud shall have a 6-32 UNC-3A thread in accordance with MIL-S-7742, and shall not have more than 3/8 inch exposed free thread. Suitable lock nuts shall be supplied by the manufacturer. Each valve shall have an 8-32 UNC-3B tapped hole, in accordance with MIL-S-7742, for attaching the ground wire.
- 3.4.6.2 <u>Explosive cartridge</u> Each discharge valve shall contain an explosive type cartridge such that actuation shall cause discharge of the extinguishing agent. The cartridge shall be in accordance with MIL-D-21625 and shall be subject to approval by the Bureau of Naval Weapons.





NOTE: FOR TYPE CF-2 CONTAINERS, FURNISH 3 MOUNTING LUGS WITH 3 HOLES FOR . 250 DIA. BOLTS ON A 6.700 DIA. BOLT CIRCLE.





TYPE	CAPACITY CU. IN.	A MAX.	B ±.187	C MAX,	E 1.125	G <u>†</u> 10
CF-2	86	SEE NOTE	5.400	10.700	SEE NOTE	60°
CF-6	224	9.812	6.375	12.250	8.750	45°
CF-II	378	11.453	7.093	13,812	10.265	3 5°
CF-15	536	12.578	7.656	14.562	11.390	35°
CF-18	630	13.125	7.968	15.187	11.938	35°
CF-27	945	14.688	8.750	16.688	13.500	35°
CF-30	1050	15,500	9.031	17.531	14.093	35°

TOLERANCES, UNLESS OTHERWISE SPECIFIED: ANGULAR: ±1° LINEAR: ±.016

ALL LINEAR DIMENSIONS SHOWN IN INCHES.

FIGURE I-SINGLE OUTLET

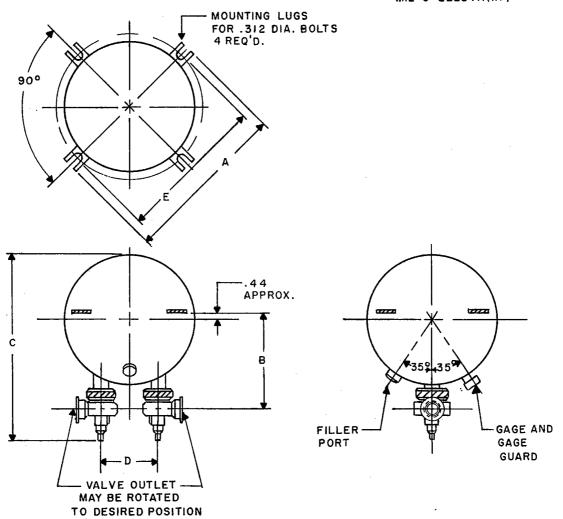
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MIL-C-22284 A(WP)



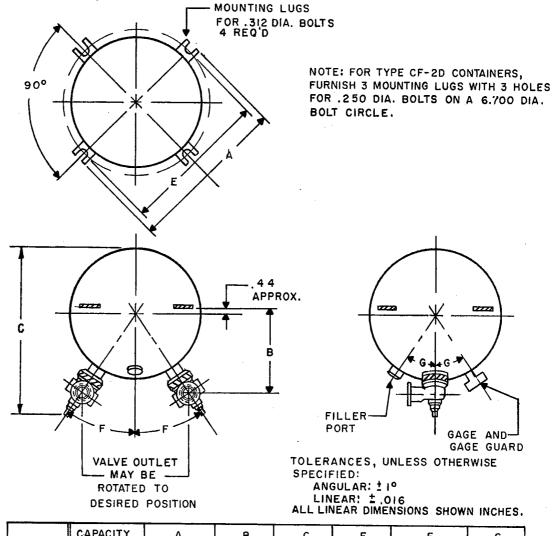
TYPE	CAPACITY CU.IN.	A MAX.	B ±.187	C MAX.	±.062	E ±.125
CF-IID	378	11.328	7.093	13.625	3,438	10.265
CF-15D	536	12.453	7.656	14.562	3, 438	11.390
CF-18D	630	13.125	7.968	15.187	3.438	11.938
CF-27D	945	14.688	8.750	16.688	3.438	13.500
CF-30D	1050	15.500	9 .031	17,531	3.438	14.093

ANGULAR TOLERANCE: ±10

ALL LINEAR DIMENSIONS SHOWN IN INCHES.

FIGURE 2-DUAL OUTLET, PARALLEL POSITION.

7.



TYPE	CAPACITY CU.IN.	A MAX.	B ±,125	C MAX.	F ±10	E ±.125	G ±10
CF-2D	86	SEE NOTE	5.000	9.812	30°	SEE NOTE	60°
CF-6D	224	9.940	5.968	12.375	22° 30'	8.750	45°
CF-IJDR	378	11.453	6.750	13.375	19 0	10.265	35°

FIGURE 3-DUAL OUTLET, RADIAL POSITION.

8

- 3.4.6.3 <u>Valve pressure</u> The valve shall be capable of withstanding an internal pressure of 1200 psi without deforming.
- 3.4.6.4 <u>Valve passages</u> The valve passages shall be of such size that 90% of the container contents at room temperature will be discharged under the test conditions specified in Section 4.
- 3.4.6.5 <u>Valve outlet</u> The discharge valve outlet for connection to the distribution tubing shall be in accordance with AND 10050 or MS33656. The outlet shall be perpendicular to the vertical axis of the sphere. Valves of single outlet spheres shall be capable of being positioned through 360 degrees in a horizontal plane. Valves of dual outlet spheres shall be capable of being positioned through an arc of 270 degrees.
- 3.4.7 <u>Pressure gage</u> A pressure gage shall be mounted on the lower half of the container. This gage shall indicate the internal pressure of the container and shall be graduated in 50 psi increments. The gage shall be suitable for use with CF<sub>3</sub>Br and shall be no more than two inches in diameter. The range of gages shall be governed by the pressures produced at the maximum operating temperature. The gage reading shall be accurate within plus or minus 30 psi.
- 3.4.7.1 <u>Gage guard</u> A guard shall be permanently attached to protect the pressure gage against damage during normal handling and service use.
- 3.4.8 <u>Safety outlet</u> Each container shall be furnished with a safety outlet incorporating a frangible disc type diaphragm or a fusible alloy type plug, in order to relieve excessive pressure that may occur in the container.
- 3.4.9 <u>Filler port</u> The container shall have a filler port for introducing the agent and the pressurizing gas into the container.
- 3.4.10 <u>Mounting provisions</u> The container shall be fitted with mounting lugs, securely and permanently attached to the container.
- 3.5 <u>Performance</u> The containers shall meet the performance requirements specified in Section 4 when subjected to the applicable tests.

3.6	Interchangeability - All parts having the same manu-
facturer's part	number shall be directly and completely interchangeable
with each other	with respect to installation and performance. Changes
in manufacturer	's part numbers shall be governed by the drawing number
requirements of	MIL-D-70327

- 3.7 Weight The weight of the charged container shall be as shown on Table I.
- 3.8 Finishes and protective coating The exterior of the container shall be finished with either one coat of zinc chromate primer conforming to MIL-P-8585 and two coats of brown lacquer conforming to MIL-L-7178, or one coat of brown enamel conforming to MIL-E-7729 applied to an acceptable rust inhibiting surface. The final color shall conform to No. 30099 of Federal Standard 595. The interior surface of the container shall be phosphate coated so as to produce a finish in accordance with MIL-C-490, Grade I.
- 3.9 <u>Marking</u> The container shall be marked in accordance with ICC Specification No. 4DA, and shall include the service pressure mark "ICC-4DA 700."
- 3.9.1 <u>Data plate</u> A decalcomania conforming to MIL-D-8635 shall be securely applied to the container and shall include suitable provisions for write-in of weights, inspection date and installation date. The type shall be at least 12 point. The following information shall be included in substantially the form shown below:

Wt. empty (actual-less valve and cartridge)	lbs.
Wt. of agent charge (nom.)	lbs.
Weight of nitrogen charge (nom.)	lbs.
Total wt. (actual-less valve and cartridge)	lbs.
Weight each valve (nom.)	lbs.
Weight each cartridge (nom.)	lbs.
Date of last wt. inspection	
Date of installation	

3.10 Nameplate - A decalcomania conforming to MIL-D-8635, permanently and legible marked with the following information, shall be securely attached to the container:

Container,	Aircraft	Fire	Extinguishing	System,	Bromo-
			Specification		
Manufacture	er's part	numb	er		

10.-



	number	 	
			trademark)
U.S. P	roperty		

## 3.11 Workmanship -

- 3.11.1 Quality The container, including all parts and accessories, shall be constructed and finished in a thoroughly work-manlike manner. Particular attention shall be given to neatness and thoroughness of marking of parts and assemblies, welding and brazing, painting, machine-screw assemblies and freedom of parts from burrs and sharp edges.
- 3.11.2 <u>Screw assemblies</u> Assembly screws and bolts shall be tight. The word "tight" shall mean that the screw or bolt cannot be appreciably tightened further, without damage or injury to the screw or bolt or threads.
- 3.11.3 <u>Cleaning</u> The container shall be thoroughly cleaned of loose metal chips and other foreign material after final assembly. Burrs and sharp edges shall be removed. The interior of the finished container shall be clean and free from scale, slag inclusions, corrosion, or other foreign matter.
- 3.11.4 <u>Welding</u> Welding shall be performed only by welding operators qualified in accordance with MIL-T-5021.

#### 4. QUALITY ASSURANCE PROVISIONS

- specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.
- 4.2 <u>Classification of inspection</u> The inspection of the containers shall be classified as follows:
  - a. Preproduction inspection
  - b. Quality conformance inspection

- 4.3 <u>Preproduction inspection</u> Preproduction inspection shall consist of all the inspections of this specification.
- 4.3.1 Sampling for preproduction inspection Unless otherwise specified, as soon as practicable after award of a contract or order, the contractor shall furnish preproduction samples for inspection to determine conformance with this specification. Preproduction samples shall consist of seven containers of each type on contract or order. The samples shall be identified with the manufacturer's name, part number, contract number, specification number, and title, date of submission for preproduction inspection and shall be inspected as specified herein and in accordance with the contract or order (see 6.2).
- 4.4 <u>Quality conformance inspection</u> Quality conformance inspection shall consist of individual inspection and sampling tests.
- 4.4.1 <u>Individual inspection</u> Each container on the contract or order shall be subjected to the following inspection in the order listed. Any container containing a defect or failing to pass any of the inspections shall be rejected.
  - a. Examination (4.6.1)
  - b. Leakage (4.6.2)
  - c. Compliance with ICC requirements (4.6.3)
- 4.4.2 <u>Sampling tests</u> A random sample shall be selected from each inspection lot in accordance with MIL-STD-105 at inspection level S-2, AQL of 6.5, and shall be subjected to the following tests.
  - a. Mounting lug test (4.6.4)
  - b. Discharge test (4.6.5)
- 4.5 <u>Inspection conditions</u> Unless otherwise specified, inspection shall be conducted at room temperature and pressure. Where charged containers are specified for inspection, they shall be charged in accordance with 3.4.4.
  - 4.6 <u>Inspection methods</u> -
- 4.6.1 <u>Examination of product</u> Each container shall be inspected to determine compliance with the requirements specified herein with respect to materials, workmanship and marking.

- 4.6.1.1 The containers shall be examined to ascertain the preparation for delivery conforms to this specification.
- 4.6.2 <u>Leakage</u> Each container shall be charged as shown in Table I and then heated to a temperature of  $109 \pm 5^{\circ}F$ . While at this temperature, the container shall be tested for leakage with a Halide lamp or an equivalent instrument such as a freon detector. There shall not be any evidence of leakage or damage.
- 4.6.3 <u>Compliance with ICC requirements</u> The manufacturer shall submit evidence of compliance of the spheres to ICC Specification No. 4DA, under service pressure classification of 700 psi.
- 4.6.4 Mounting lugs One charged container shall be mounted by the mounting lugs with the valve down. The container shall be loaded with weights which total 14 times the total weight of the fully charged container. The container shall remain loaded for not less than 30 minutes. At the end of this test, the mounting lugs shall be examined. There shall not be any failure, cracked weld, or permanent deformation.
- 4.6.5 <u>Discharge</u> One charged container shall be discharged through 10 feet of stainless steel tubing terminating in a tee having a total outlet area of 120 percent of the line area. Ninety percent of the contents of the container shall be discharged in not more than 0.8 second. The tubing sizes used for this test shall be as listed below:

Container Type	Tubing O. D.
CF-2 and CF-2D	5/8 inch
CF-6 and CF-6D	1 inch
CF-11 and CF-11D	1 1/4 inch
CF-15 and CF-15D	1 1/4 inch
CF-18 and CF-18D	1 3/4 inch
CF-27 and CF-27D	1 3/4 inch
CF-30 and CF-30D	1 3/4 inch

4.6.6 <u>Proof pressure</u> - One container shall be subjected to a proof pressure of 1400 psi. The pressure shall be retained for 10 minutes and then released. There shall not be any permanent deformation or damage. Frangible disks, if used, shall be replaced by steel disks furnished by the manufacturer.

- 4.6.7 Overheat safety outlet Operation of the overheat safety device shall be verified by one of the following tests, as applicable.
- 4.6.7.1 <u>Frangible diaphragm type</u> The charged container shall be subjected to internal pressure and the diaphragm shall rupture at a pressure between 1250 psi and 1400 psi at 160°F.
- 4.6.7.2 <u>Fusible plug type</u> The charged container shall be subjected to heat and the plug shall yield at a temperature between 205°F and 220°F.
- 4.6.8 <u>Hydrostatic bursting</u> One container shall be hydrostatically tested to destruction and the bursting pressure recorded. The minimum bursting pressure shall be 1800 psi. Before pressure is applied, the frangible disks, if used, shall be replaced by steel disks furnished by the manufacturer.
- 4.6.9 <u>Environmental</u> The charged container shall be subjected to the environmental tests of 4.6.9.1 through 4.6.9.6. Following each test, the container shall be subjected to the Discharge test of 4.6.5.
- 4.6.9.1 <u>High temperature</u> The container shall be subjected to the High temperature test specified in MIL-E-5272, Procedure II.
- 4.6.9.2 <u>Low temperature</u> The container shall be subjected to the Low temperature test specified in MIL-E-5272, Procedure I.
- 4.6.9.3 <u>Humidity</u> The container shall be subjected to the Humidity test specified in MIL-E-5272, Procedure I.
- 4.6.9.4 Salt spray The container shall be subjected to the Salt spray test specified in MIL-E-5272, Procedure I, for 50 hours.
- 4.6.9.5 <u>Vibration</u> The container shall be subjected to the Vibration tests specified in MIL-E-5272, Procedure XII. One half of each resonant and cycling period shall be conducted at room temperature and the other half of the periods shall be conducted at 160°F.
- 4.6.9.6 <u>Corrosion</u> Upon completion of the Environmental tests, the container shall be examined for corrosion. There shall not be any corrosion or pitting. Discoloration only shall not be cause for rejection.



4.6.10 Gunfire - Two charged containers shall be gunfire tested using 0.50 caliber, M2 Armor piercing ammunition with a muzzle velocity of  $2800 \pm 100$  feet per second at maximum range of 50 yards. The containers may be supported but not constrained. One container shall be tested with a tumbled shot fired through the liquid region. The second container shall be tested with a tumbled shot fired through the gaseous region. The container shall remain in one piece.

# 5. PREPARATION FOR DELIVERY

- 5.1 <u>Application</u> The requirements of Section 5 apply only to direct purchases by or direct shipments to the Government.
  - 5.2 Preservation and packaging -
- 5.2.1 <u>Level A</u> Each container shall be preserved and packaged in accordance with MIL-STD-794, Level A. The packaging method shall conform to MIL-P-116, Method III.
- 5.2.2 <u>Level C</u> Preservation and packaging shall conform to MIL-STD-794, Level C.
- 5.3 Packing Packing shall conform to MIL-STD-794, Level A, B, or C as specified (see 6.2).
  - 5.4 Marking Marking shall conform to MIL-STD-129.
- 5.4.1 <u>Additional marking</u> The following additional marking shall be shown on interior and exterior shipping containers. It shall include the date of manufacture and the following statement.

IF IN STORAGE AFTER (\* DATE), THE FIRE EXTINGUISHING CONTAINER SHALL BE INSPECTED FOR PROPER GAGE READING BEFORE ISSUE.

\*This date shall be 6 months following the date of inspection and shall be inserted by the inspector at the time of acceptance.

## 6. NOTES

6.1 <u>Intended use</u> - The containers covered by this specification are intended for use in aircraft fire extinguishing systems described in MIL-E-22285.



- 6.2 <u>Information for contracting officer</u> Contracts or orders should specify the following:
  - a. Title, number, and date of this specification
  - Selection of applicable levels of preservation, packaging, and packing required.
  - c. Type of container required (see 1.2)
  - d. Items of data required (see 6.3).
- 6.2.1 Contracts or orders should specify the following provisions for preproduction inspection.
- 6.2.1.1 Whether preproduction inspection is required. When a contractor is in continuous production of the same type of container from contract to contract and method of manufacture has not appreciably changed since prior preproduction approval was granted, consideration should be given to waive the preproduction inspections. If preproduction inspection is required, indicate:
  - a. where the preproduction inspection is to be conducted (at the contractor's plant or Government or commercial laboratory).
  - b. that the approval of preproduction samples or the waiving of the preproduction inspection shall not relieve the contractor of his obligation to fulfill all other requirements of the specification and contract.
- 6.3 Data For the information of Contractors and Contracting Officers, any of the data specified in (a) subparagraphs below, (b) applicable documents listed in Section 2 of this specification, or (c) referenced lower-tier documents need not be prepared for the Government and shall not be furnished to the Government unless specified in the contractor or order. The data to be furnished shall be listed on DD Form 1423 (Contractor Data Requirements List), which shall be attached to and made a part of the contract or order. NavWeps Form 4200/15 (Drawings, Lists, and Specifications Required) shall be attached where applicable.



- 6.3.1 Preproduction test report When preproduction tests are performed at a non-Government facility, a report shall be furnished, in duplicate. The report shall include the results of all tests performed and a detailed statement indicating compliance or extent of non-compliance with each requirement and test of this specification, referring specifically to the applicable paragraph numbers in this specification.
- 6.3.2 <u>Drawings</u> When preproduction tests are performed at a Government facility, one complete set of detail and assembly drawings, prepared in accordance with MIL-D-70327 shall accompany the test samples.

